

DuPont Performance Polymers Hytrel® 7246HS BK320 TPC-ET (Unverified Data**)

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyester, TP , Polyester Thermoplastic Elastomer

Material Notes:

Hytrel® 7246HS BK320 is a high modulus, heat stabilized, black grade with nominal hardness of 72D. Information provided by DuPont

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-7246HS-BK320-TPC-ET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	66	66	15s; ISO 868
	<= 70	<= 70	ISO 868
Tensile Strength at Break	53.0 MPa	7690 psi	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Stress	23.0 MPa	3340 psi	ISO 527
	@Strain 10.0 %, Temperature 23.0 °C	@Strain 10.0 %, Temperature 73.4 °F	
Elongation at Break	24.0 MPa	3480 psi	ISO 527
	@Strain 50.0 %, Temperature 23.0 °C	@Strain 50.0 %, Temperature 73.4 °F	
Elongation at Break	450 %	450 %	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	560 %	560 %	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	0.480 GPa	69.6 ksi	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	0.515 GPa	74.7 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179/1eA
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Brittleness Temperature	-70.0 °C	-94.0 °F	ISO 974

Processing Properties	Metric	English	Comments
Melt Temperature	240 °C	464 °F	Optimum; Extrusion
	235 - 250 °C	455 - 482 °F	Extrusion
	235 - 255 °C	455 - 491 °F	Injection Molding
Mold Temperature	245 °C	473 °F	Optimum; Injection Molding
	45.0 °C	113 °F	Optimum; Injection Molding
	45.0 - 55.0 °C	113 - 131 °F	Injection Molding
Drying Temperature	110 °C	230 °F	Extrusion
	110 °C	230 °F	Injection Molding
Dry Time	2.00 - 3.00 hour	2.00 - 3.00 hour	Dehumidified Dryer; Extrusion
	2.00 - 3.00 hour	2.00 - 3.00 hour	Dehumidified Dryer; Injection Molding
Moisture Content	<= 0.060 %	<= 0.060 %	Extrusion
	<= 0.080 %	<= 0.080 %	Injection Molding

Descriptive Properties	Value	Comments
Appearance	Black	
Features	Chemical Resistance	
	Creep Resistance, Good	
	Energy Absorption, High	
	Food Contact Acceptable	
	Hardness, High	
	Noise Dampening	
Forms	Pellets	
Generic	TPC-ET	
Material Status	Preliminary Data	
Part Marking Code	>TPC-ET<	ISO 11469

Descriptive Properties	Extrusion Value	Comments
	Injection Molding	
Product Category	Extrusion Resins	
	High Performance Hytrel® Resins	
Region Available - Global	Yes	
Resin Identification	TPC-ET	ISO 1043
RoHS Compliance	Contact Manufacturer	
Uses	Automotive	
	Compounding	
	Hose	
	Industrial Applications	
	Monofilaments	

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